2022 ANNUAL MEETING
Forum for Exploration and Development Geophysics Education and Research (EDGER)

AGENDA

Wednesday, March 23rd, 2022 (Online Annual Meeting)

8:40 AM　　　　　　**Zoom meeting opens**

09:00–09:20 AM　　　　Welcome and introduction (Mrinal Sen, Nicola Tisato, and Kyle Spikes)

Session I: Rock physics and reservoir characterization

09:20–09:40 AM　　　　Reservoir facies optimization with integrated probabilistic
rock-physics templates and seismic inversion – Wei Xie

09:40–10:00 AM　　　　Deep convolutional autoencoders for seismic facies identification – Cameron deFabry

10:00–10:20 AM　　　　The influence of frictional melt on earthquake dynamics and the seismic cycle:
Experiments on analog materials – Ethan Conrad

10:20–10:40 AM　　　　Generality of geometric information in microstructures of rocks: A computational modeling study on
micro-CT images and synthetic rock samples– Osama Alnasery

10:40–10:50 AM　　　　**Break**

Session II: Full waveform inversion and imaging

10:50–11:10 AM　　　　Correcting anisotropic seismic data with deep learning for full waveform inversion – Dimitry Voytan

11:10–11:30 AM　　　　Pulsed-beams migration with windowed radon transform frames – Ram Tuvi

11:30–11:50 AM　　　　Full waveform inversion of the Crest-1A dataset:
Comparing ADAM and LBFGS optimizations– Ricardo de Braganca

11:50–12:10 PM　　　　Physics guided deep learning for full waveform inversion – Arnab Dhara

12:10–12:30 PM　　　　Discussion

12:30 PM　　　　　　**Zoom meeting closes**